

Maths Code Crackers | Year 6 | Percentages | Questions

Solve each question below. Then use the key to find the answer to the joke. Letters can be used more than once.

1. Write $\frac{23}{25}$ as a percentage.

2. Which is larger, 0.42 or 37%?

3. $29\% + 57\% + ?\% = 100\%$

4. Write $\frac{13}{100}$ as a percentage.

5. Which is the odd one out?
25%, 0.25, $\frac{5}{20}$, 0.2

6. Which is larger, $\frac{3}{8}$ or 50%?

7. 26% of 40 = ?% of 80

8. Which is the odd one out?
92%, $\frac{95}{100}$, $\frac{19}{20}$, 0.95

9. 16% of 350 =

10. 48 is what % of 96?

11. 41% of 200 =

12. 25% of 80 = ?% of 40

13. 35% of 900 =

14. Write $\frac{3}{5}$ as a percentage.

15. 90% of 49 =

16. 75% of 420 =

17. 25% of ? = 20

18. 14% of 500 =

18. Which is larger, 0.8 or 71%

Did you know?
The first rugby balls were plumb-shaped and made from pigs' bladders.

A	B	C	D	E	F	G	H	I	J	K	L	M
50%	$\frac{95}{100}$	13%	0.25	0.42	37%	52.5	92%	70	120	80	19.6	44.1
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
0.8	0.2	315	44	14%	82	4.2	60%	$\frac{5}{20}$	56	$\frac{19}{20}$	71%	0

Why was Cinderella such a bad rugby player?

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

1. Write $\frac{23}{25}$ as a percentage.	92%	H
2. Which is larger, 0.42 or 37%?	0.42	E
3. $29\% + 57\% + ?\% = 100\%$	14%	R
4. Write $\frac{13}{100}$ as a percentage.	13%	C
5. Odd one out 25%, 0.25, $\frac{5}{20}$, 0.2	0.2	O
6. Which is larger, $\frac{3}{8}$ or 50%?	50%	A
7. 26% of 40 = ?% of 80	13%	C
8. Odd one out 92%, $\frac{95}{100}$, $\frac{19}{20}$, 0.95	92%	H
9. 16% of 350 =	56	W
10. 48 is what % of 96?	50%	A
11. 41% of 200 =	82	S
12. 25% of 80 = ?% of 40	50%	A
13. 35% of 900 =	315	P
14. Write $\frac{3}{5}$ as a percentage.	60%	U
15. 90% of 49 =	44.1	M
16. 75% of 420 =	315	P
17. 25% of ? = 20	80	K
18. 14% of 500 =	70	I
19. Which is larger, 0.8 or 71%	0.8	N

Why was Cinderella such a bad rugby player?

Her coach was a pumpkin.

Maths Code Crackers | Year 6 | Algebra | Questions

Solve each question below. Then use the key to find the answer to the joke. Letters can be used more than once.

1. If $a=7$, $b=5$, then $a + a + b = ?$	2. If $x + 5 = 12$, then $x = ?$	3. If $4y + 2 = 26$, then $y = ?$
4. I think of a number, subtract 12, and get 20. Write this as an equation.	5. If $c=3$, $d=7$, then $cd = ?$	Did you know? Darwin went on a voyage of scientific discovery around the world on the HMS Beagle.
6. If $5 + 2y = 19$, then $y = ?$	7. If $g=2$, $h=5$ and $j=4$, then $gh - j = ?$	
8. How can you write $b \times b$ differently?	9. If $3x - 5 = 13$, then $x = ?$	
11. I eat 6 sweets and there are 7 left in the packet. Write this as an equation.	12. If $p=12$, then $p \div 2 = ?$	13. If $a=15$, then $a \div 3 + 6 = ?$
14. I think of a number (y), multiply it by 3 and add 6. Write this as an equation.	15. 5 is 4 more than x . Write this as an equation.	16. How can you write $y + y + y + 6$ differently?
17. If $d = 10$, then $2d \div 4 = ?$	18. If $2b = 38$, then $b = ?$	19. If $5t + 3 = 23$, then $t = ?$

A	B	C	D	E	F	G	H	I	J	K	L	M
$2+d=8$	y^3+6	21	$2b$	6	$x-7=6$	17	7	$3y+6$	3	9	$12-x=20$	$x+4=5$
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
5	$x+5=4$	$x-6=7$	10	11	4	19	$3c=9$	a^2+b^2	b^2	$2a+2b$	$x-12=20$	8

What do scientists use to freshen their breath?

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

1. If $a=7$, $b=5$, then $a + a + b = ?$	19	T
2. If $x + 5 = 12$, then $x = ?$	7	H
3. If $4y + 2 = 26$, then $y = ?$	6	E
4. I think of a number, subtract 12, and get 20. Write this as an equation.	$x - 12 = 20$	Y
5. If $c=3$, $d=7$, then $cd = ?$	21	C
6. If $5 + 2y = 19$, then $y = ?$	7	H
7. If $g=2$, $h=5$ and $j=4$, then $gh - j = ?$	6	E
8. How can you write $b \times b$ differently?	b^2	W
9. If $3x - 5 = 13$, then $x = ?$	6	E
10. How can you write $a + b + a + b$ differently?	$2a + 2b$	X
11. I eat 6 sweets and there are 7 left in the packet. Write this as an equation.	$x - 6 = 7$	P
12. If $p=12$, then $p \div 2 = ?$	6	E
13. If $a=15$, then $a \div 3 + 6 = ?$	11	R
14. I think of a number (y), multiply it by 3 and add 6. Write this as an equation.	$3y + 6$	I
15. 5 is 4 more than x . Write this as an equation.	$x + 4 = 5$	M
16. How can you write $y + y + y + 6$ differently?	$3y + 6$	I
17. If $d = 10$, then $2d \div 4 = ?$	5	N
18. If $2b = 38$, then $b = ?$	19	T
19. If $5t + 3 = 23$, then $t = ?$	4	S

What do scientists use to freshen their breath?

They chew experi-mints.